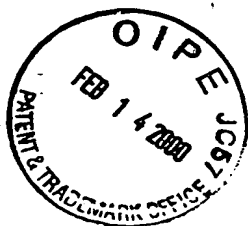


DOCKET NO. ISIS-4288



#4  
PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In Re Application of:**

**Yogesh S. Sanghvi and  
Muthiah Manoharan**

**Group Art Unit: Not Assigned Yet**

**Examiner: Not Assigned Yet**

**For: Gapped Oligomers Having Site Specific  
Phosphorotioate Internucleoside  
Linkages**

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent      ☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

- ☐ is attached hereto.  
☒ was filed on November 12, 1999 as Serial No. 09/438,989.  
☐ said application having been amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below

any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	_____	_____	_____

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
<u>09/352,058</u>	<u>July 14, 1999</u>	<u>Pending</u>
<u>09/115,027</u>	<u>July 14, 1998</u>	<u>Pending</u>
_____	_____	_____
_____	_____	_____

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
_____	_____
_____	_____

I hereby appoint the following persons as attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

John W. Caldwell                      Registration No. 28,937

Joseph Lucci                          Registration No. 33,307

of **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP**, One Liberty Place - 46<sup>th</sup> Floor, Philadelphia, Pennsylvania 19103 and

Herb Boswell                          Registration No. 27,311

Laurel Bernstein                      Registration No. 37,280

Edward D. Robinson                  Registration No. 43,049

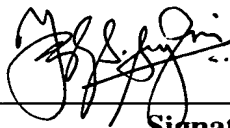
Robert S. Andrews                   Registration No. P44,508

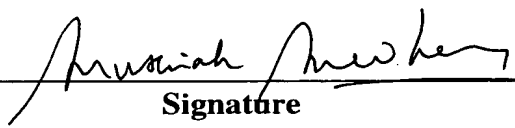
of **ISIS PHARMACEUTICALS, INC.**, 2292 Faraday Avenue, Carlsbad, California 92008

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>Name:</b> Yogesh S. Sanghvi	 _____ <b>Signature</b>  <b>Date of Signature:</b> <u>Dec. 7, 99</u>  <b>Citizenship:</b> <u>United States</u>
<b>Mailing Address:</b> 2169 Wandering Road Encinitas, CA 92024	
<b>City/State of Actual Residence:</b> Encinitas, CA	

<b>Name:</b> Muthiah Manoharan	 _____ <b>Signature</b>  <b>Date of Signature:</b> <u>12/8/99</u>  <b>Citizenship:</b> <u>United States</u>
<b>Mailing Address:</b> 7634 Reposado Drive Carlsbad, CA 92009	
<b>City/State of Actual Residence:</b> Carlsbad, CA	